

Appl. No. 10/024,783
Amendment and/or Response
Reply to Office action of 22 July 2003

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Amendments to the Claims:

A listing of the entire set of pending claims (including amendments to the claims, if any) is submitted herewith per 37 CFR 1.121. This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

CLAIMS:

1. (Currently Amended) An electroluminescent device comprising a pattern-wise ink-jet printed electrode for supplying charges to an electroluminescent layer of the electroluminescent device, the electrode comprising a metal or a metal alloy that is ink-jet printed in a molten form.
2. (Currently Amended) An electroluminescent device comprising a patterned electrode for supplying charges to an electroluminescent layer, the electrode comprising a metal or a metal alloy that is ink-jet printed in a molten form and having a subsequent non-molten transverse profile with a maximum thickness of at least 5 μm .
3. (Previously presented) An electroluminescent device as claimed in claim 1 wherein the metal or metal alloy has a melting point of 250 $^{\circ}\text{C}$ or less.
4. (Previously presented) An electroluminescent device as claimed in claim 1, wherein the electrode is an electrode for supplying electrons to the electroluminescent layer.
5. (Original) An electroluminescent device as claimed in claim 4 wherein the electrode has a work function of 4.5 eV or less.
6. (Currently amended) An electroluminescent device ~~as claimed in claim 1~~ comprising a pattern-wise ink-jet printed electrode for supplying charges to an electroluminescent layer of the electroluminescent device, the electrode comprising a metal or a metal alloy, further comprising a relief pattern for patterning the pattern-wise ink-jet printed electrode.

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7. (Previously presented) An electroluminescent device as claimed in claim 1, wherein the device is a matrix display device of the passive type comprising one or more electroluminescent layers sandwiched between row electrodes and column electrodes, independently addressable electroluminescent elements being formed at crossings of row and column electrodes, wherein the row electrodes are pattern-wise ink-jet printed electrodes comprising a metal or a metal alloy.

8. (Previously presented) A battery-operated and/or hand-held electronic device, such as a mobile phone, provided with an electroluminescent device as claimed in claim 1.

9. (Canceled)

10. (Currently amended) A method of manufacturing an electroluminescent device comprising a metal or metal alloy electrode provided in accordance with a desired pattern as ~~claimed in claim 9~~, said method comprising the deposition of a metal or metal alloy electrode in accordance with the desired pattern on a substrate surface by means of one or more deposition steps, said deposition including a deposition step of ink-jet printing molten metal or metal alloy on a surface in accordance with the desired pattern thus forming, upon cooling of the molten metal or metal alloy ink-jet printed onto the surface, the metal or metal alloy electrode.

11. (New) The method of claim 10, further comprising forming a relief pattern on the surface to facilitate patterning the pattern-wise ink-jet printed electrode.

12. (New) The method of claim 10, wherein the electrode has a transverse profile with a maximum thickness of at least 5 μm .

13. (New) The method of claim 10, wherein the metal or metal alloy has a melting point of 250 °C or less.

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14. (New) An electroluminescent device as claimed in claim 1, wherein the electrode has a work function of 4.5 eV or less.

15. (New) An electroluminescent device as claimed in claim 2, wherein the electrode has a work function of 4.5 eV or less.

16. (New) An electroluminescent device as claimed in claim 2, further comprising a relief pattern for patterning the pattern-wise ink-jet printed electrode.

17. (New) An electroluminescent device as claimed in claim 2, wherein the device is a matrix display device of the passive type comprising one or more electroluminescent layers sandwiched between row electrodes and column electrodes, independently addressable electroluminescent elements being formed at crossings of row and column electrodes, wherein the row electrodes are pattern-wise ink-jet printed electrodes comprising a metal or a metal alloy.

18. (New) A battery-operated and/or hand-held electronic device, such as a mobile phone, provided with an electroluminescent device as claimed in claim 2.

19. (New) An electroluminescent device of claim 6, wherein the electrode has a transverse profile with a maximum thickness of at least 5 μm .

20. (New) An electroluminescent device as claimed in claim 6, wherein the metal or metal alloy has a melting point of 250 $^{\circ}\text{C}$ or less.